MCERI Annual Meeting
La Torretta Lake Resort, Montgomery, Texas
November 1-2, 2018

Agenda

DAY 1 – Thursday, November 1, 2018

7:30 AM  Breakfast

8:00 AM  Opening Remarks
         Akhil Datta-Gupta and Michael J. King, Texas A&M University (30 min)

8:30 AM  Optimizing CO₂ and Field Gas Injection EOR in Unconventional Reservoirs Using the Fast Marching Method
         Atsushi Iino (25 min)

8:55 AM  Diffuse Source Upscaling and Multiscale Simulation
         Krishna Nunna (25 min)

9:20 AM  Streamline Tracing and Applications in Naturally Fractured Reservoirs Using Embedded Discrete Fracture Models
         Hongquan Chen (25 min)

9:45 AM  Computing Diffusive Time of Flight in Locally Refined Grids Using the Fast Marching Method
         Xu Xue (25 min)

10:10 AM Break (20 min.)

10:30 AM Post-Combustion CO₂ WAG Pilot in a Mature Field: Model Calibration and Optimization
         Feyi Olalotiti-Lawal (20 min)

10:50 AM Modeling of Injection and Production Phases of Hydraulically Fractured Shale Wells Using the Fast Marching Method
         Jaeyoung Park (20 min)

11:10 AM Production Data Analysis from Unconventional Reservoirs with a Novel Data-Driven Drainage Volume Approach
         Zhenzhen Wang (20 min)

11:30 AM Rapid Field-Scale Well Spacing Optimization in Shale Oil Reservoirs Using the Fast Marching Method
         Tsubasa Onishi (20 min)

11:50 PM Lunch (60 min.)
         FMM Simulation: Technology Transfer Presentation

12:50 PM Poster Session (40 min.)

1:30 PM  Industry Presentation: A Physics-Based Data-Driven Model for History Matching, Prediction, and Characterization of Unconventional Reservoirs
         Yanbin Zhang, Chevron (30 min)
2:00 PM  Optimization of EOR with Wettability Alteration in Tight Oil Reservoirs for Various Hydraulic Fracture Geometries  
*Hye Young Jung (20 min)*

2:20 PM  Analytical Investigation of Spontaneous Imbibition  
*Lichi Deng (20 min)*

2:40 PM  Multiresolution Grid Connectivity-Based Transform for Efficient History Matching of Conventional and Unconventional Reservoirs  
*Hyunmin Kim (20 min)*

3:00 PM  Investigation of the End of Linear Flow and Onset of SRV Drainage in Unconventional Reservoirs  
*Andrew Malone (20 min)*

3:20 PM  Break (20 min.)

3:40 PM  Integration of Time-Lapse Seismic Data Using the Onset Time Approach: Impact of Frequency  
*Tian Liu (20 minutes)*

4:00 PM  Optimization of Fracture Completions Using Eagle Ford Field Data  
*Rongqiang Chen (15 min)*

4:15 PM  SWIFT Upgridding of the Amellago Carbonate Outcrop Model  
*Imroj Syed (15 min)*

4:30 PM  Interpreting the Effective Permeability of Carbonate Reservoir Pore Network Using Diffuse Source Methodology  
*Sherry Liu (15 min)*

4:45 PM  Discussion and Wrap-up  
*Michael J. King and Akhil Datta-Gupta, Texas A&M University (30 min.)*

5:00 PM  Adjourn/Reception

6:00 PM  Dinner

**DAY 2 – Friday, November 2, 2018**

7:30 AM  Breakfast

8:00AM  Opening Remarks  
*Akhil Datta-Gupta and Michael J. King, Texas A&M University*

8:15AM  DESTINY: Tracing and Inversion  
*Changqing “Peter” Yao*

9:15 AM  GRACE: Optimal Non-Parametric Transformation for Multiple Regression  
*Rongqiang Chen*

10:15 AM  Break

10:45 AM  SPADES: Production Data Analysis for Unconventional Reservoirs  
*Xu Xue*

11:15 AM  SWIFT: Upgridding and Upscaling  
*Imroj Syed*

12:00 PM  Lunch and Adjourn
Poster Presentations

History Matching and Optimization of ASP Flooding: Hye Young Jung

Parameterization of Embedded Discrete Fracture Model for Unconventional Tight Reservoirs with Hydraulic Fractures: Hyunmin Kim and Tsubasa Onishi

Fast Marching Simulation in Embedded Discrete Fracture Models: Xu Xue

Rapid Coupled Flow and Geomechanics Simulation Using the Fast Marching Method: Kazuyuki Terada

Novel Approach Toward Faulted Reservoirs with Streamline Simulation: Kenta Nakajima

Fast Marching Method-Based Simulation Accounting for Gravity: Tsubasa Onishi

Multi-well Simulation for Constant Rate Production Scenario Using the Fast Marching Method: Atsushi Iino

Mechanism of Seismicity at the Azle Site, Fort-worth Basin: Flow Visualization in Fine-scale and Basin-Scale Model: Changqing “Peter” Yao

Amellago Carbonate Outcrop Model Upscaling: Ching-Hsien “Isaac” Liu and Krishna Nunna